



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 140618

**To:** Karen A Lacourciere  
**Location:** REM/2D15/2C18  
**Art Unit:** 1635  
**Tuesday, December 21, 2004**

**Case Serial Number:** 08/765244

**From:** Beverly Shears  
**Location:** Remsen Bldg.  
RM 1A54  
**Phone:** 571-272-2528

**beverly.shears@uspto.gov**

### Search Notes

#### Protein Sequence Searches - 10/8/04

All of the sequence databases on the ABSS have been updated. A change has occurred in the protein databases.

- Two protein databases, SPTREMBL and SwissProt, are now produced as a single, merged database called UniProt.
- Results from UniProt have the file extension **.rup**.
- Sequences in UniProt are identified by the same ID that had been used in SPTREMBL or SwissProt.
- In instances where the database curators have determined that an SPTREMBL record and a SwissProt record represent the same sequence, the two records have been merged into one. Both IDs are present in the record. Any differences found between the two sequences are recorded in the FT (feature table) fields.

If you have any questions regarding these changes or your results, please contact any STIC searcher.



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1/10/04

CARE

From: Lacourciere, Karen  
Sent: Thursday, December 16, 2004 4:03 PM  
To: STIC-Biotech/ChemLib  
Subject: Sequence Search Request 08/765,244

Please search SEQ ID NO:1 and 22 for 08/765,244 in the amino acid databases. Please search the commercial databases and the pending files (interference) Thank-you!

Karen A. Lacourciere Ph.D.  
Remsen 2D15 GAU 1635  
(571) 272-0759

seq 1-41 AA  
22-43 AA

\*\*\*\*\*  
STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2- \_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date Completed: \_\_\_\_\_  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*  
Type of Search

NA Sequence: # \_\_\_\_\_  
AA Sequence: # \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

\*\*\*\*\*  
Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIS: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

Date completed: \_\_\_\_\_

Searcher: Beverly e 2528

Terminal time: \_\_\_\_\_

Elapsed time: \_\_\_\_\_

CPU time: \_\_\_\_\_

Total time: \_\_\_\_\_

Number of Searches: \_\_\_\_\_

Number of Databases: \_\_\_\_\_

## Search Site

\_\_\_\_\_ STIC  
\_\_\_\_\_ CM-1  
\_\_\_\_\_ Pre-S

## Type of Search

\_\_\_\_\_ N.A. Sequence  
\_\_\_\_\_ A.A. Sequence  
\_\_\_\_\_ Structure  
\_\_\_\_\_ Bibliographic

## Vendors

\_\_\_\_\_ IG  
\_\_\_\_\_ STN  
\_\_\_\_\_ Dialog  
\_\_\_\_\_ APS  
\_\_\_\_\_ Geninfo  
\_\_\_\_\_ SDC  
\_\_\_\_\_ DARC/Questel  
✓ \_\_\_\_\_ Other CGN

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08/765244

FILE 'REGISTRY' ENTERED AT 10:19:53 ON 21 DEC 2004  
L13 11 S MLSNLRILLNKAAALRKAHTSMVRNFRYGKPVQS/SQSP

FILE 'CAPLUS' ENTERED AT 10:21:48 ON 21 DEC 2004  
L14 6 S L13

L14 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
ED Entered STN: 12 Jun 2003

ACCESSION NUMBER: 2003:448590 CAPLUS  
Correction of: 2003:177122

DOCUMENT NUMBER: 139:31810  
Correction of: 138:216594

TITLE: Differentially expressed nucleic acids and their  
encoded proteins associated with pain and their use in  
screening for regulatory agents

INVENTOR(S): Woolf, Clifford; D'Urso, Donatella; Befort, Katia;  
Costigan, Michael

PATENT ASSIGNEE(S): The General Hospital Corporation, USA; Bayer AG

SOURCE: PCT Int. Appl., 1017 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016475	A2	20030227	WO 2002-XC25765	20020814
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2003016475	A2	20030227	WO 2002-US25765	20020814
WO 2003016475	A3	20040910		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 2001-312147P	P 20010814
			US 2001-346382P	P 20011101
			US 2001-333347P	P 20011126
			WO 2002-US25765	A 20020814

AB The present invention relates to human and rat nucleic acid sequences which are related to pain and which are differentially expressed during

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pain. The nucleic acids are differentially expressed by at least  $\pm 1.4$ -fold in any or all of the following conditions using the Affymetrix human U95, murine U74 and rat U34 GeneChip arrays: axotomy, spared nerve injury, chronic constriction, spinal segmental nerve lesion, and inflammatory pain models. The invention further relates to methods of identifying nucleic acid sequences which are differentially expressed during pain, microarrays comprising such differentially expressed sequences, and methods of screening agents for the ability to regulate the expression of such differentially expressed sequences. [This abstract record is one of seven records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 540832-88-0

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; differentially expressed nucleic acids and their encoded proteins associated with pain and their use in screening for regulatory agents)

L14 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 15 Sep 1995

ACCESSION NUMBER: 1995:792849 CAPLUS

DOCUMENT NUMBER: 123:220296

TITLE: Method for preparation of conjugates of signal peptides and nucleic acid fragments and their use in targeting nucleic acids in cells and cell organelles

INVENTOR(S): Seibel, Peter; Seibel, Andrea

PATENT ASSIGNEE(S): Germany

SOURCE: Ger., 19 pp.

CODEN: GWXXAW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4421079	C1	19950817	DE 1994-4421079	19940616
DE 19520815	A1	19951221	DE 1995-19520815	19950611
DE 19520815	C2	19960725		
WO 9534665	A2	19951221	WO 1995-DE775	19950611
WO 9534665	A3	19960222		
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9526679	A1	19960105	AU 1995-26679	19950611
EP 774006	A2	19970521	EP 1995-921691	19950611
R: AT, BE, CH, DE, FR, GB, IE, IT, LI, LU, NL				
US 2001008771	A1	20010719	US 1997-765244	19971030
PRIORITY APPLN. INFO.:			DE 1994-4421079	A1 19940616
			WO 1995-DE775	W 19950611

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AB Linkage of a nucleic acid fragment to a signal sequence allows the transport of the nucleic acid sequence through the membrane to a specific target for use in gene therapy. In linking the nucleotide sequence to a signal peptide, natural protein transport pathways can be used for site-directed mutagenesis and for the mol. therapy of inherited diseases. The nucleic acid moiety of the conjugate may be synthesized chemical, e.g.

to

incorporate nuclease-resistant phosphorothioate, or by transcription. A 39 nucleotide fragment is linked to the signal sequence of the rat mitochondrial ornithine carboxylase to achieve transport across the mitochondrial membrane. The oligonucleotide forms a hairpin loop and has a 5' overhang to which further nucleic acid sequences can be linked.

IT 168147-56-6

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; method for preparation of conjugates of peptides and nucleic acid fragments and their use in targeting nucleic acids in cells and cell organelles)

L14 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 31 Oct 1987

ACCESSION NUMBER: 1987:548500 CAPLUS

DOCUMENT NUMBER: 107:148500

TITLE: Structure of the rat ornithine carbamoyltransferase gene, a large, X chromosome-linked gene with an atypical promoter

AUTHOR(S): Takiguchi, Masaki; Murakami, Takashi; Miura, Satoshi; Mori, Masataka

CORPORATE SOURCE: Med. Sch., Kumamoto Univ., Kumamoto, 862, Japan

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1987), 84(17), 6136-40  
CODEN: PNASA6; ISSN: 0027-8424

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Rat mitochondrial ornithine carbamoyltransferase (EC 2.1.3.3) is encoded by a gene located on the X chromosome and expressed specifically in the liver and small intestine; this gene was cloned and its structure determined. The gene is 75 kilobases long and is split into 10 exons. The introns range in length from 85 bases to 26 kilobases. The sum of the total exons is 1.5 kilobase and occupies only 2% of the gene; this value being one of the lowest among genes heretofore reported. The 1st exon encodes most of the N-terminal presequence that functions as a mitochondrial targeting signal. Putative binding sites for the 2 substrates of the enzyme, carbamoyl phosphate and ornithine, are encoded by exons 3 and 9, resp. A set of CAAT box- and ATA box-like sequences is present ~200 bases upstream from the 5' end of the mRNA. About 35 bases downstream from this set of putative promoter elements, and 11-nucleotide sequence around the 5' end of the mRNA reappears, as a direct repeat. This pair of direct repeats may play a role in pulling the cap site and the promoter elements together. Upstream and downstream from the 5' end of the mRNA there are several sequences that resemble the transcription factor Sp1-binding site, the enhancer core sequence, the consensus sequence for the glucocorticoid receptor-binding sites, and the putative enhancer element of the antithrombin III gene, another gene that is expressed specifically in the

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liver.

IT 94949-11-8

RL: PRP (Properties)  
(amino acid sequence of)

L14 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 27 Jul 1985

ACCESSION NUMBER: 1985:417684 CAPLUS

DOCUMENT NUMBER: 103:17684

TITLE: The primary structure of the imported mitochondrial protein, ornithine transcarbamylase from rat liver: mRNA levels during ontogeny

AUTHOR(S): McIntyre, Peter; Graf, Lynda; Mercer, Julian F. B.; Wake, Samantha A.; Hudson, Peter; Hoogenraad, Nicholas

CORPORATE SOURCE: Dep. Biochem., La Trobe Univ., Bundoora, 3083, Australia

SOURCE: DNA (1985), 4(2), 147-56  
CODEN: DNAADR; ISSN: 0198-0238

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Ornithine transcarbamylase [9001-69-8], one of the enzymes of the urea cycle in ureotelic organisms, is synthesized in the cytoplasm of hepatocytes as a precursor larger than the mature form found in the mitochondrial matrix. The amino acid sequence of the precursor of ornithine transcarbamylase from rat liver was deduced from the nucleotide sequence of overlapping cDNA clones spanning the complete coding region, 3'-untranslated region, and most of the 5'-untranslated region of the mRNA. The mature enzyme consists of 322 amino acids and is derived from the larger precursor by proteolytic removal of 32 amino acids from N terminus. The N-terminal extension contains 8 basic and no acidic residues. This highly basic character appears to be a feature of presequences on cytoplasmically synthesized mitochondrial proteins. A comparison of the amino acid sequence determined for the enzyme from rat

with

that from human liver shows that there is a high degree of homol. between the sequences of the mature protein (93%) and relatively less homol. between the sequences of the N-terminal extension (72%). The ornithine transcarbamylase from rat liver also shows a considerable degree of amino acid homol. (44%) with the enzyme from Escherichia coli, which leads to suggestions about residues involved in substrate binding and catalysis. Ornithine transcarbamylase mRNA levels increase from .apprx.40% of adult levels at day 14 of gestation to a peak at day 20 of gestation and, after a drop around the time of birth, rise to adult levels during the 2nd wk after birth.

IT 94949-11-8

RL: PRP (Properties)  
(amino acid sequence of)

L14 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 18 May 1985

ACCESSION NUMBER: 1985:161372 CAPLUS

DOCUMENT NUMBER: 102:161372

TITLE: A cDNA clone for the precursor of rat mitochondrial ornithine transcarbamylase: comparison of rat and human leader sequences and conservation of catalytic sites

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AUTHOR(S): Kraus, Jan P.; Hodges, Peter E.; Williamson, Cynthia L.; Horwich, Arthur L.; Kalousek, Frantisek; Williams, Kenneth R.; Rosenberg, Leon E.  
 CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA  
 SOURCE: Nucleic Acids Research (1985), 13(3), 943-52  
 CODEN: NARHAD; ISSN: 0305-1048  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB A DNA was cloned that was complementary to the mRNA encoding the precursor of ornithine transcarbamylase [9001-69-8] from rat liver. This cDNA contains the entire protein coding region of 1062 nucleotides and 86 nucleotides of 5'- and 298 nucleotides of 3'-untranslated sequences. The predicted amino acid sequence was confirmed by extensive protein sequence data. The mature rat enzyme contains the same number of amino acid residues (322) as the human enzyme, and the amino acid sequences are 93% homologous. The rat and human amino-terminal leader sequences of 32 amino acids, on the other hand, are only 69% homologous. The rat leader contains no acidic and 7 basic residues compared to 4 basic residues found in the human leader. There is complete sequence homol. (residues 58-62) among the ornithine and aspartate transcarbamylases from *Escherichia coli* and the rat and human ornithine transcarbamylases at the carbamyl phosphate binding site. Finally, a cysteine-containing hexapeptide (residues 268-273), the putative ornithine binding site in *Streptococcus faecalis*, *S. faecium*, and bovine transcarbamylases, is completely conserved among the 2 *E. coli* and the 2 mammalian transcarbamylases.

IT 95917-60-5  
 RL: PRP (Properties)  
 (amino acid sequence of)

L14 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 22 Mar 1985

ACCESSION NUMBER: 1985:90778 CAPLUS

DOCUMENT NUMBER: 102:90778

TITLE: Molecular cloning and nucleotide sequence of cDNA for rat ornithine carbamoyltransferase precursor

AUTHOR(S): Takiguchi, Masaki; Miura, Satoshi; Mori, Masataka;

Tatibana, Masamiti; Nagata, Shigekazu; Kazi, Yoshito

CORPORATE SOURCE: Sch. Med., Chiba Univ., Chiba, 280, Japan

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1984), 81(23), 7412-16  
 CODEN: PNASA6; ISSN: 0027-8424

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mRNA of rat specifying ornithine carbamoyltransferase (EC 2.1.3.3) [9001-69-8], a mitochondrial matrix enzyme, was enriched by immunopptn. of rat liver free polysomes, and recombinant plasmids were prepared from the enriched mRNA by a vector-primer method. The cDNA clones for ornithine carbamoyltransferase were identified by a hybrid-arrested translation and hybrid-selected translation. One of the clones, pOTC-1, contained a 1.6-kilobase (kb) insert and hybridized to a mRNA of .apprx.1.8 kb in rat liver. The cDNA clone was subjected to nucleotide sequence anal. The deduced amino acid sequence indicated that the ornithine carbamoyltransferase precursor [80146-82-3] consists of a mature enzyme of 322 amino acid residues and an N-terminal peptide extension (presequence) of 32 amino acid residues. The presequence contains 8 basic

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amino acid residues, no acidic residues, and no hydrophobic amino acid stretch. The amino acid sequence of rat ornithine carbamoyltransferase was compared with the recently reported sequence of the human enzyme. Approx. 93% of the sequences of the mature enzyme portion are identical, whereas 69% of the presequences are identical. There are 2 highly conserved segments in the presequences of the rat and human enzymes. One of the 2 conserved segments is significantly similar to a segment of the presequence of yeast mitochondrial elongation factor EF-Tu. Apparently, the homologous segments are important for proteins that are synthesized in the cytosol to be transported into the mitochondrial matrix.

IT 94949-11-8

RL: PRP (Properties)  
(amino acid sequence of)

E27 THROUGH E30 ASSIGNED

FILE 'REGISTRY' ENTERED AT 10:22:19 ON 21 DEC 2004

L15 4 SEA FILE=REGISTRY ABB=ON PLU=ON (94949-11-8/BI OR 168147-56-6  
/BI OR 540832-88-0/BI OR 95917-60-5/BI)

L16 4 L13 AND L15

L16 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 540832-88-0 REGISTRY

CN Pain-regulated protein (rat clone WO03016475-SEQID-12767) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1675: PN: WO03016475 SEQID: 12767 claimed protein

CI MAN

SQL 354

SEQ 1 MLSNLRILLN KAALRKAHTS MVRNFRYGKP VQSQVQLKGR DLLTLKNFTG

=====

51 EEIQYMLWLS ADLKFRKQK GEYLPQLQK SLGMIFEKRS TRTRLSTETG  
101 FALLGGHPSF LTTQDIHLGV NESLTD TARV LSSMTDAVLA RYKQSDLDI  
151 LAKEATIPV NGLSDLYHPI QILADYLTQ EHYGSLKGLT LSWIGDGNNI  
201 LHSIMMSAAK FGMHLQAATP KGYEPDPNIV KLAEQYAKEN GTRLSMTNDP  
251 LEAARGGNVL ITDTWISMGQ EDEKKRLQA FQGYQVTMKT AKVAASDWT  
301 LHCLPRKPEE VDDEVFYSR SLVFPEAENR KWTIMAVMVS LLTDYSPVLQ  
351 KPKF

HITS AT: 1-33

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 139:31810

L16 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 168147-56-6 REGISTRY

CN L-Cysteine, L-methionyl-L-leucyl-L-seryl-L-asparaginyl-L-leucyl-L-arginyl-L-isoleucyl-L-leucyl-L-leucyl-L-asparaginyl-L-lysyl-L-alanyl-L-alanyl-L-leucyl-L-arginyl-L-lysyl-L-alanyl-L-histidyl-L-threonyl-L-seryl-L-methionyl-L-valyl-L-arginyl-L-asparaginyl-L-phenylalanyl-L-arginyl-L-tyrosylglycyl-L-lysyl-L-prolyl-L-valyl-L-glutaminyl-L-seryl-L-glutaminyl-L-valyl-L-glutaminyl-L-leucyl-L-lysyl-L-prolyl-L-arginyl-L- $\alpha$ -aspartyl-L-leucyl- (9CI) (CA INDEX NAME)

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08/765244

OTHER NAMES:

CN 1-43-Decarboxylase, ornithine [43-cysteine] (rat precursor)  
CI MAN  
SQL 43

SEQ 1 MLSNLRILLN KAALRKAHTS MVRNFRYGKP VQSQVQLKPR DLC  
=====

HITS AT: 1-33

REFERENCE 1: 123:220296

L16 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 95917-60-5 REGISTRY  
CN Carbamoyltransferase, preornithine (rat clone pRO21) (9CI) (CA INDEX  
NAME)  
CI MAN  
SQL 354

SEQ 1 MLSNLRILLN KAALRKAHTS MVRNFRYGKP VQSQVQLKGR DLLTLKNFTG  
=====

51	EEIQYMLWLS	ADLKFRKQK	GEYLPLLQGK	SLGMIFEKRS	TRTRLSTETG
101	FALLGGHPSF	LTTQDIHLGV	NESLTDARV	LSSMTDAVLA	RVYKQSDLDI
151	LAKEATIPIV	NGLSDLYHPI	QILADYLTLO	EHYGLKGLT	LSWIGDGNNI
201	LHSIMMSAAK	FGMHLQAATP	KGYPDPNIV	KLAEQYAKEN	STRLSMTNDP
251	LEAARGGNVL	ITDTWISMGQ	EDEKKRLQA	FQGYQVTMKT	AKVAASDWTG
301	LHCLPRKPEE	VDDEVFYSR	SLVFPEAENR	KWTIMAVMVS	LLTDYSPVLQ
351	KPKF				

HITS AT: 1-33

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 102:161372

L16 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 94949-11-8 REGISTRY  
CN Carbamoyltransferase, preornithine (rat clone pOTC-1) (9CI) (CA INDEX  
NAME)  
CI MAN  
SQL 354

SEQ 1 MLSNLRILLN KAALRKAHTS MVRNFRYGKP VQSQVQLKGR DLLTLKNFTG  
=====

51	EEIQYMLWLS	ADLKFRKQK	GEYLPLLQGK	SLGMIFEKRS	TRTRLSTETG
101	FALLGGHPSF	LTTQDIHLGV	NESLTDARV	LSSMTDAVLA	RVYKQSDLDI
151	LAKEATIPIV	NGLSDLYHPI	QILADYLTLO	EHYGLKGLT	LSWIGDGNNI
201	LHSIMMSAAK	FGMHLQAATP	KGYPDPNIV	KLAEQYAKEN	GTRLSMTNDP
251	LEAARGGNVL	ITDTWISMGQ	EDEKKRLQA	FQGYQVTMKT	AKVAASDWTG
301	LHCLPRKPEE	VDDEVFYSR	SLVFPEAENR	KWTIMAVMVS	LLTDYSPVLQ
351	KPKF				

HITS AT: 1-33

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 107:148500

REFERENCE 2: 103:17684

Searcher : Shears 571-272-2528

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08/765244

REFERENCE 3: 102:90778

(FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 10:23:04 ON 21 DEC 2004)  
L17 0 S L16

FILE 'HOME' ENTERED AT 10:23:13 ON 21 DEC 2004

Searcher : Shears 571-272-2528

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